

***"another three ounces —  
just right, young man"***



*Easily calculated... Quickly prepared. 1 fl. oz. Biolac to 1½ fl. oz. water per pound of body weight.*

...A familiar statement by physicians prescribing Biolac for infants deprived of human milk.

The protein level of Biolac assures an adequate supply for growth and health, with small, soft curds. The adjusted milk fat facilitates digestion and assimilation with greater freedom from "fat upsets"; and the ample lactose content assures a soft natural stool formation. The adequate proportions of lactose, iron, and vitamins A, B<sub>1</sub>, B<sub>2</sub> and D eliminate the need for time-consuming calculations of extra formula ingredients. Indeed, Biolac (supplemented with vitamin C) provides *completely* for infant nutritional requirements throughout the bottle period.

BORDEN PRESCRIPTION PRODUCTS DIVISION  
350 MADISON AVENUE • NEW YORK, 17, N. Y.

*Biolac is a liquid modified milk, prepared exclusively from Board-of-Health-inspected whole and skim milk, with added lactose, and fortified with vitamin B<sub>1</sub>, concentrate of vitamins A and D from cod liver oil, and iron. Evaporated, homogenized, and sterilized, vitamin C supplementation only is necessary. Biolac is available in 13 fl. oz. cans at all drug stores.*



# Biolac

**—“BABY TALK” FOR A GOOD SQUARE MEAL**



## ARTIFICIAL HUMAN EYES

*"True to Life"*

ESPECIALLY MADE TO ORDER BY SKILLED ARTISANS

Comfort, pleasing cosmetic appearance and motion guaranteed. Eyes also fitted from stock by experts. Selections sent on memorandum. Referred cases carefully attended.

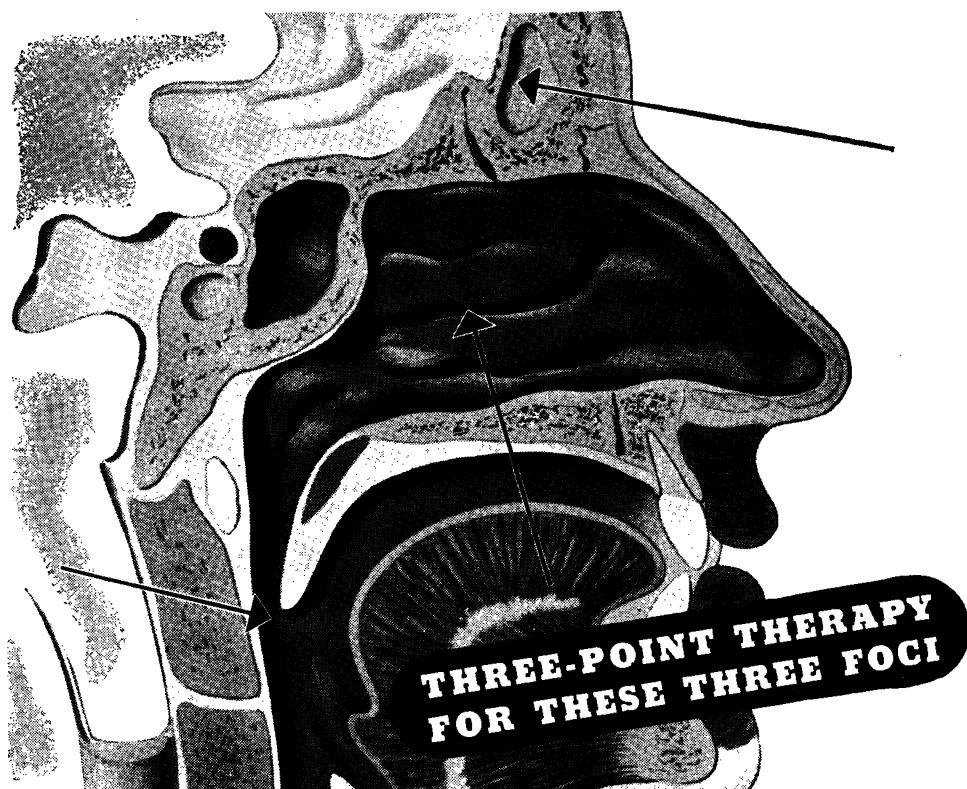
SPECIALISTS IN ARTIFICIAL HUMAN EYES EXCLUSIVELY

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# FRIED & KOHLER, Inc.

*"Forty-three years devoted to pleasing particular people"*

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**I**N the treatment of paranasal infection, ARGYROL offers more than effective anti-sepsis, decongestion without vasoconstriction, and cleansing effect. It also provides for stimulation, *synergetically*, of the membrane's inherent, natural defense mechanism.

Treatment with ARGYROL is wisely directed to these three foci of paranasal infection:

1. the nasal meatus . . . by 20 per cent ARGYROL instillations through the naso-lacrimal duct.
2. the nasal cavities . . . with 10 per cent ARGYROL solution in drops or by nasal tamponage.
3. the fauces and pharynx . . . by swabbing with 20 per cent ARGYROL solution.



## ARGYROL THE PHYSIOLOGIC ANTISEPTIC WITH SYNERGETIC ACTION . . .

Made only by the A. C. BARNES COMPANY, NEW BRUNSWICK, N. J.  
ARGYROL is a registered trademark, the property of A. C. Barnes Company

### How Argylol Acts on the Membrane

**DECONGESTIVE**—ARGYROL's decongestive effect on the membrane is the result of its demulcent, osmotic action. The withdrawal of ARGYROL tampons from the post-nasal cavities frequently brings forth a long ropy mucous discharge measuring as much as two feet or more.

**BACTERIOSTATIC**—Although proved to be definitely bacteriostatic, ARGYROL is non-toxic to tissue. In nearly half a century of wide medical use of ARGYROL, no case of toxicity, irritation, injury to cilia or pulmonary complication in human beings has ever been reported.

**STIMULATING**—Soothing to nerve ends in the membrane and stimulating to glands, ARGYROL's action is more than surface action. For it acts *synergetically* with the membrane's own tissue defense mechanism.

When you order or prescribe ARGYROL, make sure you specify Original Package ARGYROL.

A vertical black and white photograph occupies the left half of the page. It depicts a bright, circular light source, possibly the sun or moon, positioned in the upper half. A strong, shimmering reflection of this light is visible on a dark, textured surface below, which appears to be water. The overall mood is serene and calm.

# Preoperative Calm

ALTHOUGH many of the derivatives of barbituric acid have a generic resemblance in their principal action, there are significant differences which establish certain compounds in special clinical fields. For example, 'Sodium Amytal' (Sodium Iso-amyl Ethyl Barbiturate, Lilly), while frequently prescribed for insomnia, has been found particularly useful as a preanesthetic hypnotic. Given preoperatively it serves to allay fear and apprehension, improves the patient's mental attitude, thus facilitating surgical procedure. 'Sodium Amytal' is also widely employed in obstetrics. In recommended dosage it is capable of producing amnesia without prolonging dilatation of the cervix or interfering with the strength or frequency of uterine contractions.

ELI LILLY AND COMPANY  
Indianapolis 6, Indiana, U.S.A.



# INDEX TO ADVERTISERS

JANUARY 1945 • BULLETIN OF  
THE NEW YORK ACADEMY OF MEDICINE

ANGLO-FRENCH LABORATORIES, Inc.	XXIII
ARLINGTON CHEMICAL COMPANY	XXXI
BARNES, A. C., CO.	III
BORDEN	I
BRAVERMAN, M., & SONS	XV
BURROUGHS WELLCOME	XVII
CAMEL CIGARETTES	XI
CAMP, S. H., AND COMPANY	VIII
CANADA DRY GINGER ALE, Inc.	XXVII
CHATHAM PHARMACEUTICALS, Inc.	XXI
CHESEBROUGH MFG. CO.	XIII
CIBA PHARMACEUTICAL PRODUCTS, Inc.	XIX, XXX, XLI, XLII
CLAY-ADAMS CO.	XXV
COCA-COLA	XXXIX
DUBIN, H. E., LABORATORIES	XXVI
ELI LILLY AND COMPANY	IV
FALKIRK-IN-THE-RAMPOS	XVIII
FRIED & KOHLER, Inc.	II
GERBER'S	XL
HAUSTETTER, A., Inc.	XXIV
LECTURES TO THE LAITY	XXVII
LEDERLE LABORATORIES, Inc.	VII
MACY, R. H., & CO.	XV
MAGER & GOUGELMAN, Inc.	XXVI
MALLINCKRODT CHEMICAL WORKS	XXXIII
MALTBIE CHEMICAL COMPANY	XXXIV
MALTINE CO.	Inside Back Cover
MEAD JOHNSON & CO.	XIV
MERCK & CO., Inc.	XX
NUTRITION RESEARCH LABORATORIES	XXXVI, XXXVII
PAINE HALL	XVIII
PEDIFORME SHOES	XXVIII
PFIZER, CHAS. & CO., Inc.	XII
POMEROY	XXVIII
SARATOGA SPA	XXVII
SCHENLEY LABORATORIES	IX
SCHERING CORP.	XXIX
SCHIEFFELIN & CO.	XXVI
SEARLE, G. D., & CO.	XXXVIII
SQUIBB, E. R., AND SONS	XVI
TEACHER'S BLENDED SCOTCH WHISKY	XVIII
TOWNS, CHARLES B., HOSPITAL	XXIV
TROMMER'S	XXXV
U. S. VITAMIN CORPORATION	VI
WALKER-GORDON LABORATORIES	XXII
WARNER, WILLIAM R., & CO.	XXXII
WINTHROP CHEMICAL CO.	X

**building**

**a**

**drop**

**of**

**blood**



**HEMATOLOGISTS** have shown that various nutritional elements, coupled with iron, frequently produce a speedier and more satisfactory response in treating secondary anemias.

**VI-LITRON** Capsules supply:

**Special Liver Fraction\***

—a high concentration (55 to 1) of the anti-secondary anemia principle.

**Iron as Ferrous Sulfate**

—the form considered to be most readily assimilated and utilized.

**Vitamins B<sub>1</sub> • B<sub>2</sub> • Niacinamide**

—deficiency of these vitamins often interferes with maximum absorption of RBC factors.

**Vitamin C**

—said to be "involved in normal erythropoiesis"; even mild deficiency may cause hypochromic anemia.

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—gastric hydrogen ion concentration known to be favorable to iron absorption.

\*Not a pernicious anemia product

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**Liver • Iron • Vitamins**

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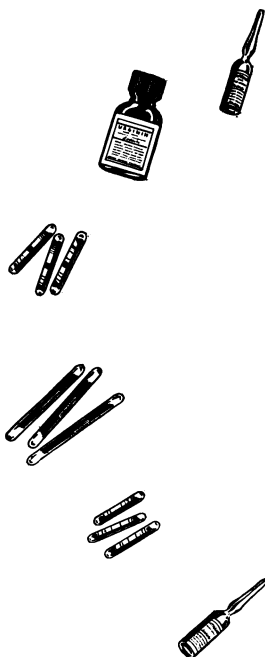
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for Secondary **ANEMIA**



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FRIDAY EVENING (Blue Network, Coast-to-Coast)

- JAN. 5 Karl Meyer, M.D.  
*Distinguished California Pathologist, Director of the Hooper Foundation for Medical Research at the University of California, Consultant to the Secretary of War and Member of the Subcommittee on Tropical Diseases, National Research Council.*  
Subject: "Psittacosis or Parrot Fever"
- JAN. 12 Wesley W. Spink, M.D.  
*Associate Professor of Medicine, University of Minnesota Medical School.*  
Subject: "Penicillin"
- JAN. 19 Paul Dudley White, M.D.  
*Distinguished Cardiologist and Past President of the American Heart Association.*  
Subject: "Diseases of the Heart"
- JAN. 26 Thomas Francis, Jr., M.D.  
*Professor of Epidemiology, School of Public Health, University of Michigan, Director of Commission on Influenza of U.S. Army Epidemiological Board.*  
Subject: "Outlook for the Control of Influenza"

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\*Accepted by the Council on Pharmacy and Chemistry of The American Medical Association.



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new helpful information on  
ANATOMICALLY DESIGNED SUPPORTS**

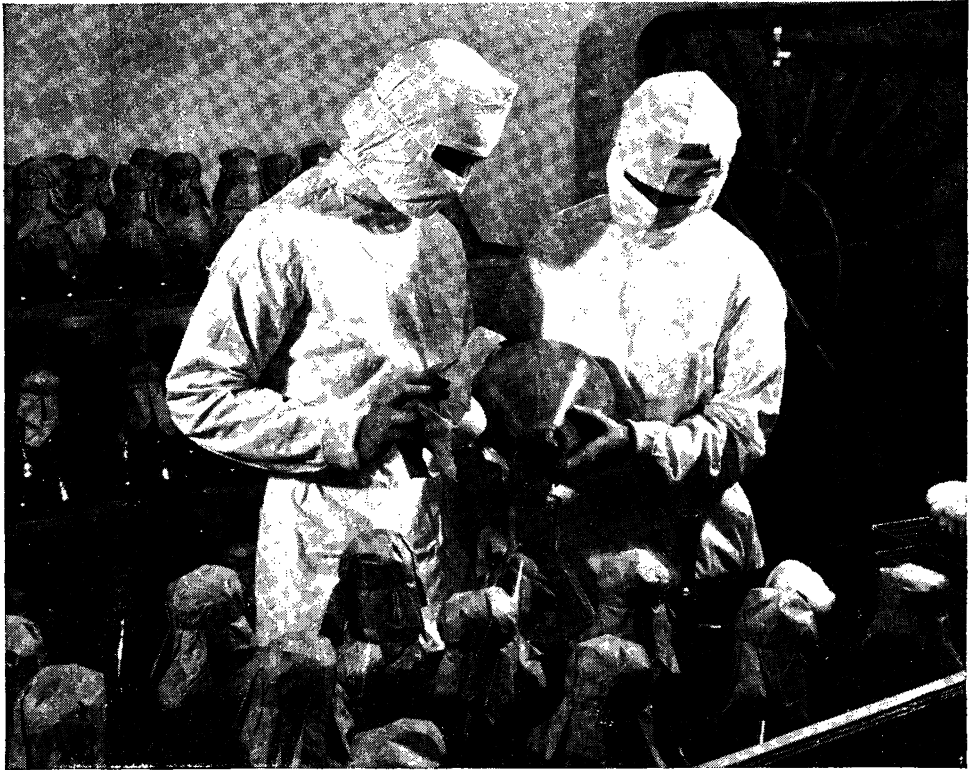
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**postoperative supports • hernia**



## PENICILLIN—The “accidental” discovery that calls for “accident-proof” production

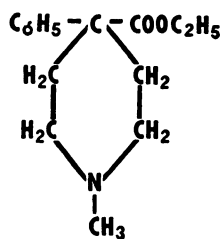
The contamination of a bacterial culture with *Penicillium notatum* observed by Alexander Fleming was an “accident of nature.” The production of pyrogen-free penicillin for the medical profession, however, is dependent upon the most rigid control—prevention of any “accident” which might interfere with maximum productivity and a pure product. As the above photograph of the “seeding” of penicillium cultures shows, elaborate precautions are observed at every step at the Schenley Laboratories in the production of—and maintenance of the purity of—Penicillin Schenley.



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*For Oral and Intramuscular Administration*



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ate hydrochloride

**Demerol hydrochloride**

*THE analgesic effect ap-  
pears to be between that  
of morphine and codeine,  
and it persists for from three  
to six hours.*

Demerol has many indications in medicine, surgery and obstetrics.

Before prescribing, physicians should read carefully the booklet on Demerol hydrochloride (sent free on request). Prescriptions are subject to the regulations of the Federal Bureau of Narcotics.

Supplied for oral use, tablets of 50 mg.; for injection, ampuls of 2 cc. (100 mg.).



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Brand of MEPERIDINE HYDROCHLORIDE  
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*Winthrop Chemical Company, Inc.*

Pharmaceuticals of merit for the physician • NEW YORK 13, N. Y. • WINDSOR, ONT.



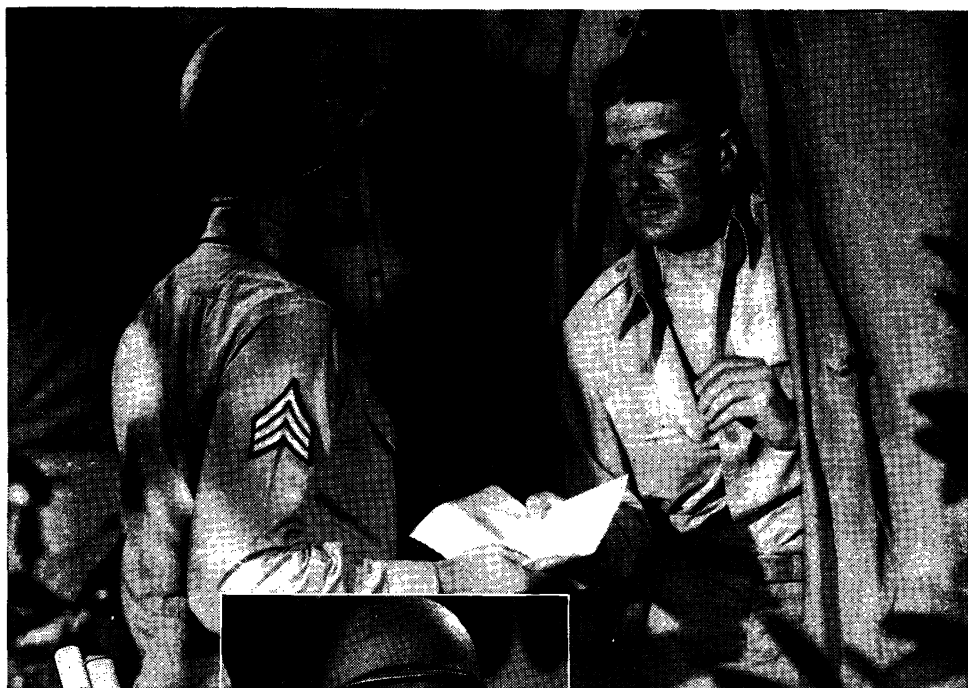
# Office Hours—*24 hours a day*

**B**ATTLE FRONT or home front—the story is the same: There aren't enough hours in the day.

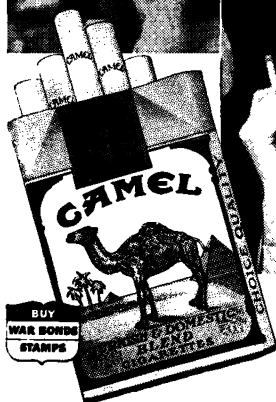
It may be a new offensive in the far-off Pacific with its inevitable toll of casualties; it may be an epidemic in a crowded defense area here on the home

front—but *never* in history of man has the medical profession carried such a responsibility...carried it so magnificently.

But the reward is great. Because terrible though war is, it is the laboratory out of which will come new knowledge to benefit mankind for years to come.



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NO ONE more than the doctor deserves that precious moment of relaxation...the pleasure of a cigarette. Likely as not it will be a cool, flavorful Camel—the favorite with men in all the services, according to actual sales records.

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Discovered in 1928 by Professor Alexander Fleming, and first isolated in 1940 by Professor H. W. Florey and his co-workers

at Oxford. Pfizer research began in 1941 with first laboratory experiment producing Penicillin by fermentation the same year and recovering it from the fermentation liquors. That winter Pfizer first supplied Penicillin for clinical experiment. In 1942 made first delivery to U. S. Government. In 1943 Pfizer Pilot Plant was in full operation and ground broken for a large, modern plant which was completed early in 1944. Pfizer has been the World's Largest Producer of Penicillin since its early history in this country.



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CHEMICALS FOR THOSE WHO SERVE MAN'S WELL-BEING





# petrolatum to promote optimal conditions for burn healing...

**'VASELINE' PETROLEUM JELLY  
IS PETROLATUM U.S.P.**



1. J.A.M.A. 125:536-543 (June 24) 1944
2. J.A.M.A. 125:612-616 (July 1) 1944
3. Ann. of Surg. 117:885 (June) 1943

With normal nutrition and absence of infection, the burned surface heals.

To prevent potential infection, and thus promote optimal conditions for burn-healing, prompt covering of the wound is imperative . . . with a dressing impervious to infection, non-injurious to cells, non-adherent to the burned tissue.<sup>1, 2, 3</sup>

Now . . . as a result of civilian disaster and burn tragedies of the war . . . a new treatment for burns has been developed.

In addition to plasma, and chemotherapy internally or intravenously,<sup>1</sup> burn surfaces are promptly covered with dressings impregnated with petrolatum. With these non-adherent dressings, wounds can be left to "rest" undisturbed for days, without the necessity for frequent changes of dressings . . . without the accompanying re-exposure of the burn surface to infection, too.

'Vaseline' Petroleum Jelly dressings, non-injurious to cells, protect against surface infection from the air . . . help relieve pain from exposed sensory nerve endings . . . promote optimal conditions for healing of the burn surface.

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REG. U.S. PAT. OFF.  
**PETROLEUM JELLY**

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NEGATIVISM



CONTEMPLATION



CURIOSITY



INTEREST



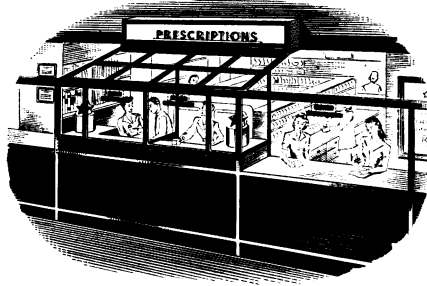
INVESTIGATION



ACCEPTANCE

*A Young Lady's First Impressions*

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*Herald Square, N. Y.*

*Parkchester, Bronx*

#### 5 IMPORTANT FACTS CONCERNING

### MACY'S PRESCRIPTION DEPARTMENT

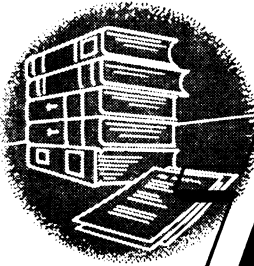
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★ *With the meticulous attention and the rigid checking given to all prescription compounding, your patients are assured of the fullest measure of accuracy.*



# ***facts*** FOR M.D.'s

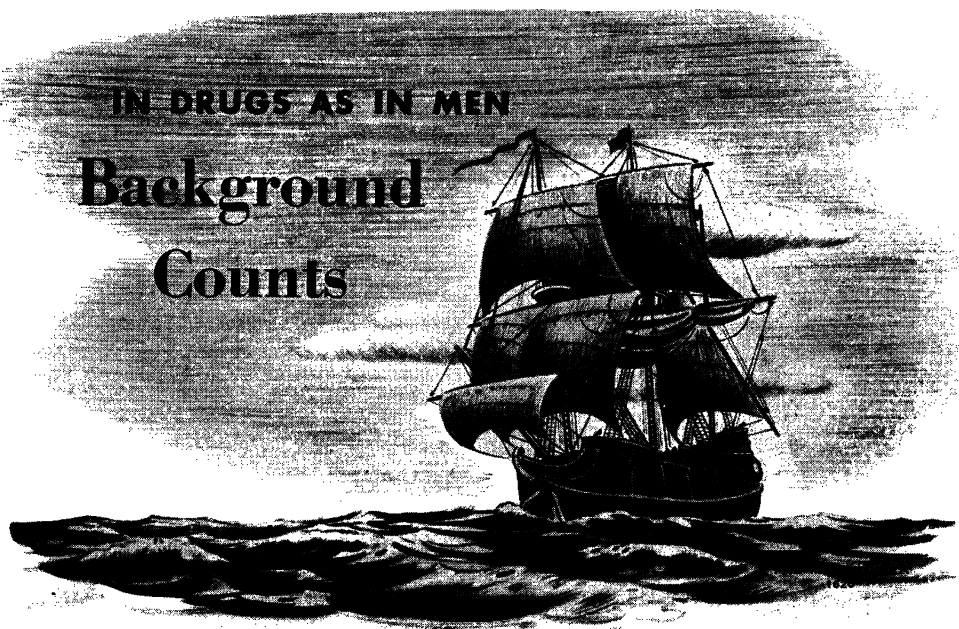
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AMNIOTIN has now been available for your use for more than sixteen years. Since 1928, this dependable estrogen has been continuously subject to that most critical of all tests—clinical usage.

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Amniotin, at the end of sixteen years, still stands high in terms of dependability, clinical effectiveness, freedom from side-effects and economy. For the case requiring either massive or minimal dosage, Amniotin is available in a form and potency which makes it possible to administer that dose conveniently and economically.

Today as in 1928, Amniotin, by all practical criteria, possesses the desirable qualities you look for in an estrogen. It provides you with a potent, natural estrogen, economical, convenient, and standardized in the universally accepted International Unit. No other estrogen has given more consistent satisfaction over a longer period.

Amniotin is one of many fruits of the eighty-six years devoted by the Squibb Laboratories to the translating of experimental research into practical reality. Could any estrogen have a better background?

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Diaphragm-capped vials: 10-cc. vials of 10,000 I.U. and 20,000 I.U. per cc., and 20-cc. vials of 2,000 I.U. per cc. Also in 1-cc. ampuls containing 2,000, 5,000, 10,000 and 20,000 I.U. per cc.

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Children's Size, containing the equivalent of 1,000 I.U., and Regular Size, containing the equivalent of 2,000 I.U.

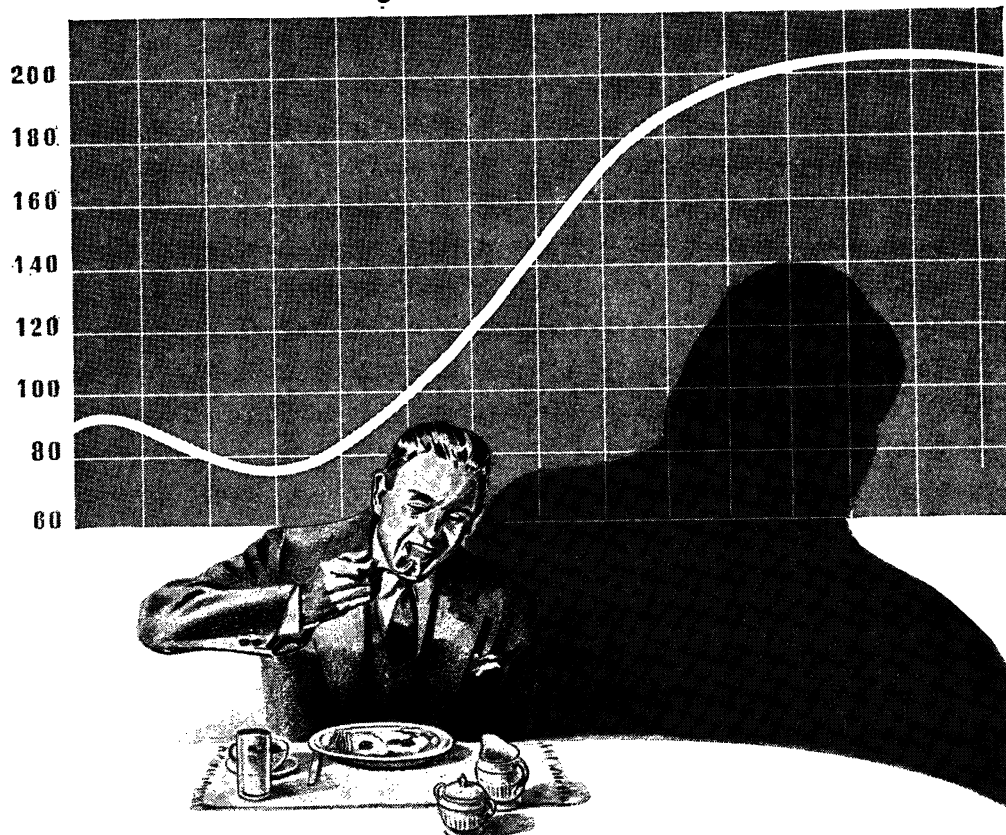
For literature address Professional Service Dept., 745 Fifth Ave., New York 22, N. Y.

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*Manufacturing Chemists to the Medical Profession Since 1858*

**BUY ANOTHER WAR BOND . . . NOW!**

# 'Particularly valuable'



• Globin Insulin with Zinc is "particularly valuable... in regulating patients who have a rise of blood sugar after eating only..." reports Herman O. Mosenthal, M. D. (J. A. M. A. 125, 483-488, June 17, 1944.)

Diabetics of this type who are well controlled throughout the twenty-four hours with a single injection of 'Wellcome' Globin Insulin with Zinc, depend for this control on Globin Insulin's rapid onset of action and sustained day-time effect. Its diminishing action at night tends to minimize nocturnal insulin reactions.

'Wellcome' Globin Insulin with Zinc is a clear solution and, in its freedom from allergenic reactions, is comparable to regular insulin. It is accepted by the Council on Pharmacy and Chemistry, American Medical Association, and was developed in the Wellcome Research Laboratories, Tuckahoe, New York. U. S. Patent No. 2,161,198.

*Available in vials of 10 cc., 80 units in 1 cc.*



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Year in and year out, since 1830, discerning men have toasted great hopes with the excellence of Teacher's Scotch. There's a simple reason . . .

*"It's the flavour"*



Made since 1830 by Wm. Teacher & Sons, Ltd., Glasgow

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Perfection of Blended Scotch Whisky

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Physician-in-Charge

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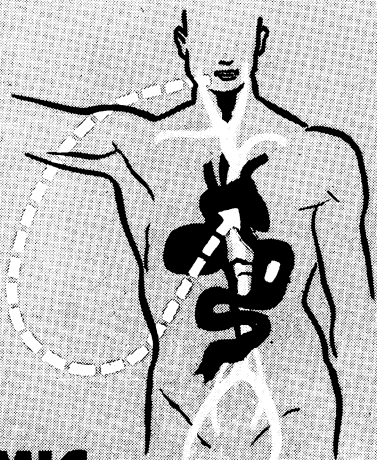
### Our Graduates Make CAPABLE ASSISTANTS

When you need a trained office and laboratory assistant, our Placement Service (operated without charge) can help you locate exactly the right type of girl. Paine Hall demands perfection. Our students continue their course only after a rigid three months' probationary period. Graduates are thoroughly qualified in haematology, blood chemistry, urinalysis, clinical pathology and operation of office machines, as well as medical stenography and bookkeeping.

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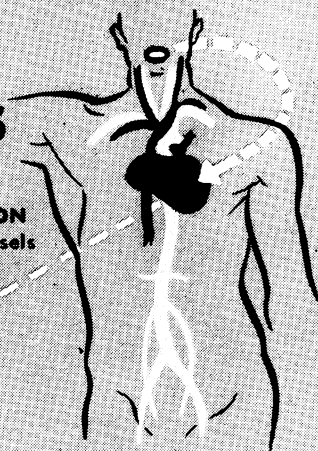
CHAUNCEY R. PORTER, Principal

## ECONOMIC ANDROGENIC EFFECTS



**INTESTINAL ABSORPTION**  
Long route through portal system  
to general circulation

**PERLINGUAL ABSORPTION**  
Direct from sublingual vessels  
to systemic circulation



## WITH SMALLER DOSES

Metandren Linguets, especially designed for perlingual absorption, permit more complete utilization by side-tracking the liver where partial inactivation of methyltestosterone is known to take place. Dosage requirements are  $\frac{1}{2}$  to  $\frac{3}{8}$  those necessary to produce the same results when methyltestosterone is ingested.

# METANDREN LINGUETS\*

\*Trade Mark Reg. U. S. Pat. Off. Ciba's trade name for waters of methyltestosterone.

*a Ciba  
Product*

CIBA PHARMACEUTICAL PRODUCTS, INC. • Summit, New Jersey



# Merck Amino Acids

The accompanying table gives the optical rotation and the nitrogen or sulfur content of the Merck Amino Acids. The high degree of purity of Merck Amino Acids makes them suitable for investigative studies to determine their nutritional importance and their physiological significance. Almost all the amino acids found in proteins now are being manufactured by Merck & Co., Inc.

Aminoacidic Acid U.S.P.	Optical Rotation	Nitrogen or Sulfur Content	Theoretical Nitrogen or Sulfur Content
<b><i>l</i> (—) Arginine Monohydrochloride</b>	$[\alpha]_D^{25}$ (in normal HCl): $+21.4^\circ$ to $+22.4^\circ$	N:18.4%—18.8% N:26.3%—26.7%	N:26.60%
<b><i>dl</i> Aspartic Acid</b>		N:10.4%—10.6%	N:10.52%
<b>Beta-Alanine</b>		N:15.6%—15.8%	N:15.72%
<b><i>dl</i> Alpha-Alanine</b>		N:15.6%—15.8%	N:15.72%
<b><i>l</i> (+) Cysteine Hydrate</b>	(not less than 98% on the anhydrous basis)		
<b><i>l</i> (—) Cystine</b>	$[\alpha]_D^{30}$ —200° to —203°	S:26.3%—27%	S:26.69%
<b><i>l</i> (+) Glutamic Acid</b>	$[\alpha]_D^{25}$ (in normal HCl): $+30.7^\circ$ to $+32.5^\circ$	N:9.4%—9.6%	N:9.52%
<b><i>dl</i> Glutamic Acid Monohydrate</b>		N (in anhydr.) 9.4%—9.6%	N:9.52%
<b><i>l</i> (+) Histidine Monohydrochloride</b>	$[\alpha]_D^{25}$ (anhy. basis in normal HCl): $+9.5^\circ$ to $+11^\circ$	N (in anhydr.) 21.7%—22.0%	N:21.93%
<b><i>l</i> (—) Hydroxyproline</b>	$[\alpha]_D^{25}$ —75.5° to —76.5°	N:10.6%—10.8%	N:10.68%
<b><i>dl</i> Isoleucine</b>		N:10.5%—10.8%	N:10.68%
<b><i>dl</i> Leucine</b>		N:10.5%—10.8%	N:10.68%
<b>*<i>l</i> (—) Leucine</b>	$[\alpha]_D^{25}$ (in 20% HCl): $+15^\circ$ to $+16.2^\circ$	N:10.5%—10.8%	N:10.68%
<b><i>l</i> (+) Lysine Monohydrochloride</b>	$[\alpha]_D^{25}$ (anhy. basis in normal HCl): $+20^\circ$ to $+21.0^\circ$	N:15.2%—15.5%	N:15.34%
<b><i>dl</i> Lysine Monohydrochloride</b>		N:15.2%—15.4%	N:15.34%
<b><i>dl</i> Methionine</b>		N:9.3%—9.5% S:21.3%—21.6%	N:9.39% S:21.5%
<b><i>dl</i> Norleucine</b>		N:10.5%—10.8%	N:10.68%
<b><i>dl</i> Phenylalanine</b>		N:8.4%—8.6%	N:8.48%
<b><i>l</i> (—) Proline</b>	$[\alpha]_D^{25}$ —83.5° to —85.5°	N:12%—12.3%	N:12.17%
<b><i>dl</i> Serine</b>		N:13.2%—13.4%	N:13.33%
<b><i>dl</i> Threonine</b>		N:11.6%—11.9%	N:11.76%
<b>**<i>dl</i> Tryptophane</b>		N:13.5%—13.8%	N:13.72%
<b>**<i>l</i> (—) Tryptophane</b>	$[\alpha]_D^{25}$ —31.5° to —33°	N:13.5%—13.8%	N:13.72%
<b><i>l</i> (—) Tyrosine</b>	$[\alpha]_D^{25}$ (in normal HCl): —10° to —11°	N:7.6%—7.8%	N:7.73%
<b><i>dl</i> Valine</b>		N:11.8%—12.1%	N:11.96%



\*Methionine: less than 0.1%; Tryptophane and Tyrosine: less than 0.05%  
 \*\*Tyrosine: absent (by Millon's reagent)

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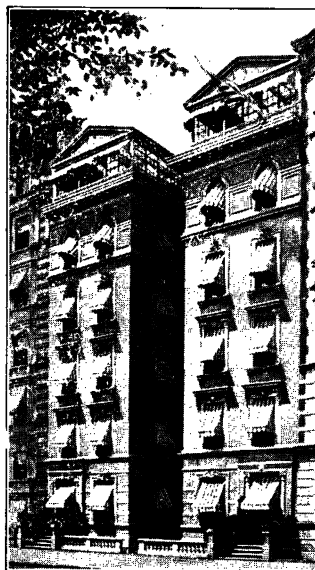
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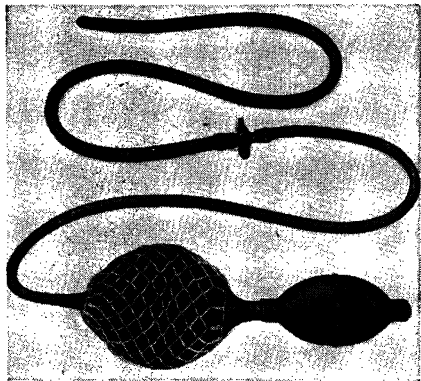
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◀ Apparatus for air inflation of the colon: The tube is inserted into the rectum. With the petcock closed off, air is pumped from one bulb until the second bulb is filled. The petcock is then turned very slowly so as to permit only a gradual escape of the air into the colon. When all of the air has left the second bulb, the petcock is then turned off and the process is repeated. The amount of air necessary for filling the colon is determined by fluoroscopic observation, which is continued during the entire process. When sufficient distention of the colon has taken place, the rectal tube remains in situ with the petcock shut off until radiographic exposures are made, preferably with the aid of the Bucky diaphragm.

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Ref: Jacob Buckstein, M.D., Clinical Roentgenology of the Alimentary Tract, W. B. Saunders Co., 1940.

D-70 Buckstein Air Insufflator for Colonic Aerograms, as illustrated, complete with Cacoprene colon tube, 26 Fr., solid tip, two eyes.

Each \$5.00

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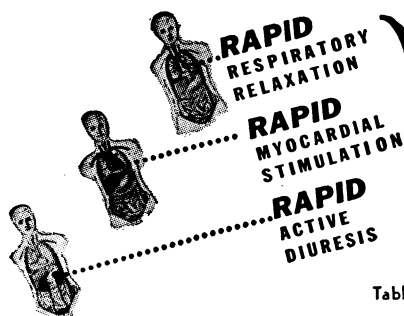
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Fig. 2. Colon filled with barium—papilloma not visualized.



Fig. 3. After partial evacuation of barium and injection of air (aerogram)—papilloma visualized.



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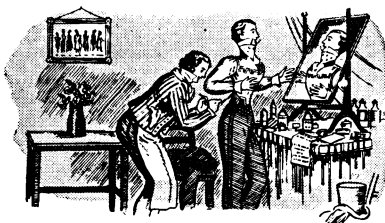
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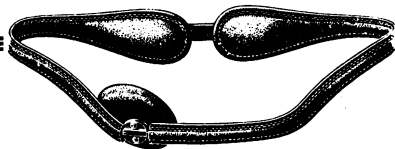


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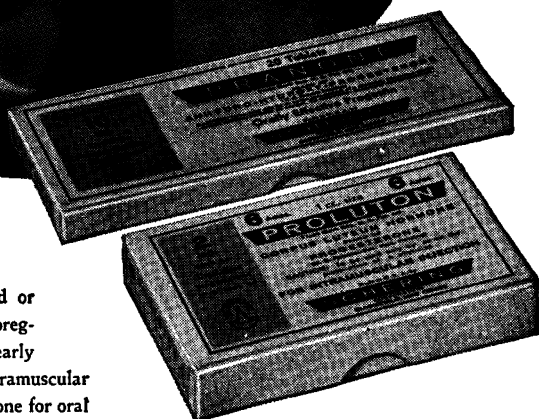


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**Aminoids** is indicated in pregnancy and lactation—pre and post-operative care—burns—ulcers—anemia—nutritional edema—nephrosis.

**Aminoids** is further indicated whenever the protein intake or utilization is insufficient as suggested by loss of weight—dietary history—albuminuria—impaired digestion, as in: Achlorhydria or hypochlorhydria—achylia gastrica—achylia pancreatica.

**Aminoids** may be taken in hot or cold liquids—water, milk, fruit juices, etc.

One tablespoonful of Aminoids T.I.D. supplies nitrogen equivalent to approximately 12 gm. of protein, as hydrolysate.

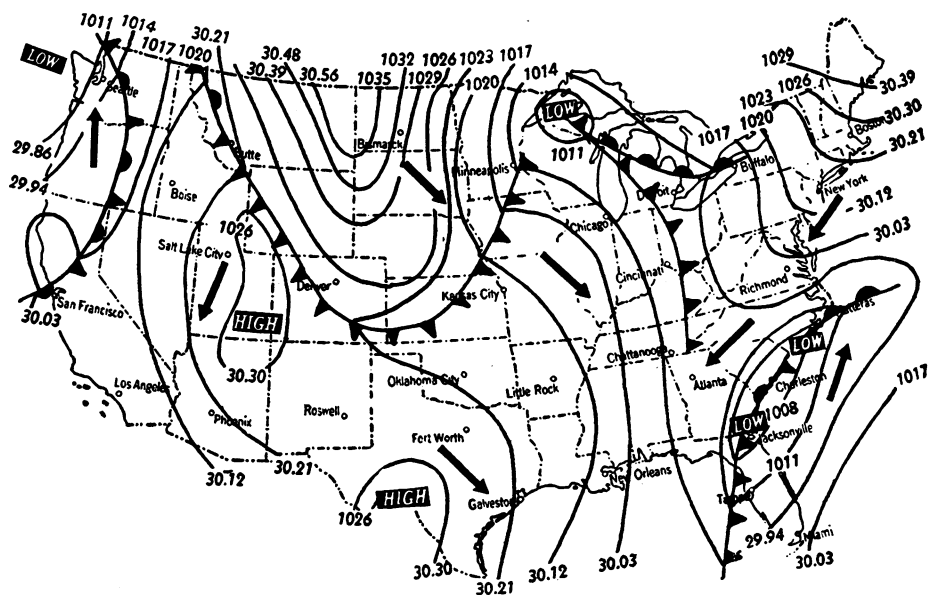
Dosage may be adjusted to meet the patient's requirements. Supplied in granular form in bottles containing six ounces.



\*The name *Aminoids* is the registered trade mark of The Arlington Chemical Company.

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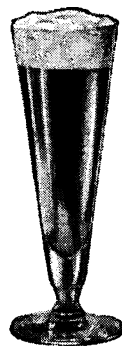
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When prescribing beer for convalescent patients, suggest Trommer's White Label Premium Beer. If you yourself enjoy beer, we suggest that you give Trommer's White Label Premium Beer a personal test.



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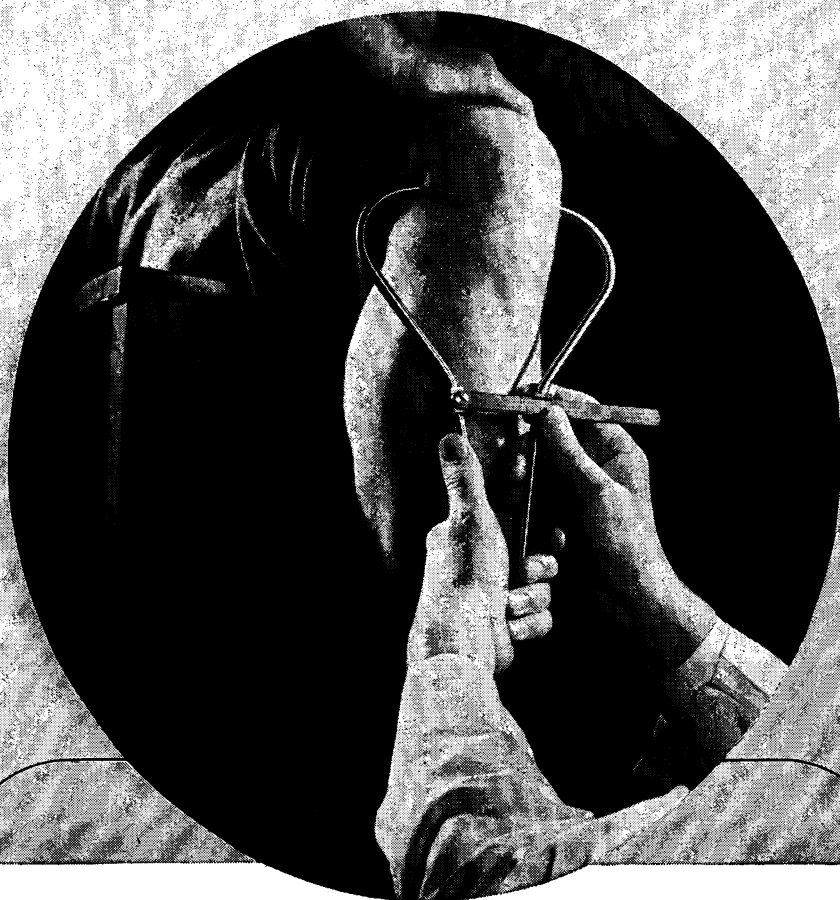
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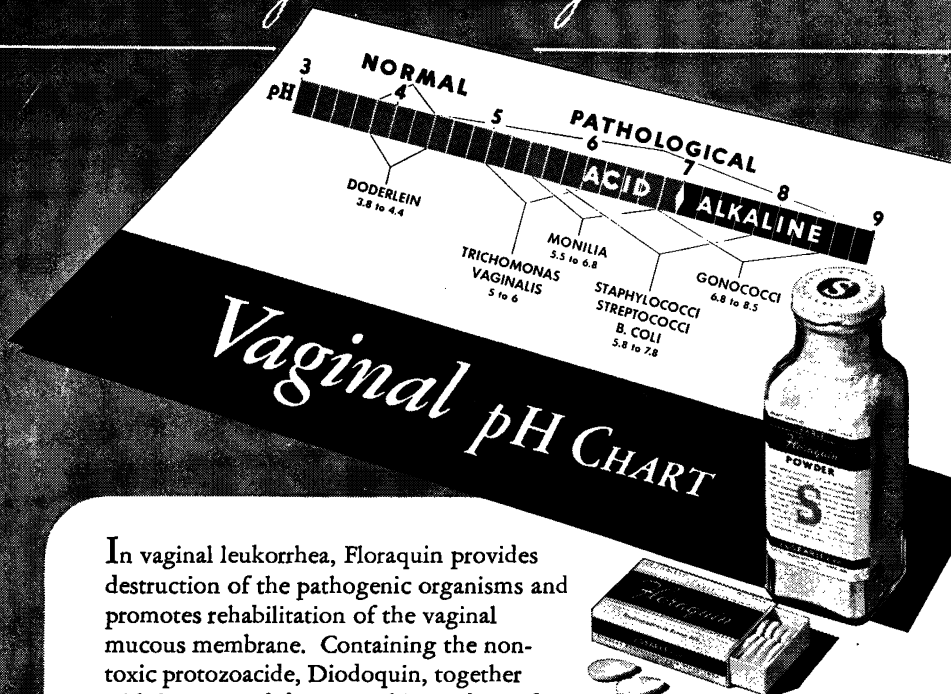
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*The pause  
that  
refreshes*

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**Nutritional Values.** Gerber's Baby Foods are cooked by steam under pressure in order to preserve to the fullest the mineral and vitamin content. Furthermore, every step in the process of making Gerber's Baby Foods is laboratory-checked.

**Texture.** It has been proved that a smooth, uniform texture is an important factor in baby foods. Gerber's takes great care that the texture is just right for the delicate gastro-intestinal tract of young infants.

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We hope you will mention Gerber's Baby Foods to your patients with babies.

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Greater offensive power against disease is the primary objective of the incessant research activities of Ciba laboratory technicians. They know that the discovery of one major therapeutic weapon can save more lives, in the long run, than any war can take. And so, these "soldiers" of flask and centrifuge—by improving familiar Ciba products and evolving new and valuable medicinals—war against pathology to aid mankind.



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## DIGIFOLIN HAS NOT CHANGED.



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## **DISTRESS SIGNAL**

When the patient complains of "indigestion," it may point to any of a multitude of underlying disturbances among which functional or pathologic changes at any level of the biliary tract are of high incidence as is pancreatic deficiency.

In most of such cases, *Depancol* has proved its efficacy. A protective enteric coating assures its effects which are:

- 1 CHOLERETIC—by *increased flow of physiologically normal bile.*
- 2 DIGESTIVE—by *action of bile salts and the pancreatic enzymes supplied.*

*Depancol* contains no laxative or cathartic drugs. Your pharmacy may obtain the enteric coated *Depancol* in bottles of 50, 500 and 5000.

**THE Maltine COMPANY**  
NEW YORK ESTABLISHED 1875